

A Lower Aluminium Fluoride, by E. Voss, W. Klemm,
7 pp.

^{per}
GERMAN, A. Z. Anorg. Allgemein Chem, Vol CCLI, 1943,
pp 233-240.

S.L.A. Tr No 313/1955

Sci - Chemistry
Jan 1957 CTS/dex

44,967

Kurrol's Sodium Metaphosphate.

GERMAN, per, Z Anorg und Allgem Chem, Vol CCLI,
1943, pp 213-220.

Possibly to Come From Contacts
per 10 Dec 62 memo
USIB INTERNAL USE ONLY

Sci - Chem
Dec 62

Complexes and Salts of Ethylene-Diamine Tetra-Acetic
Acid, by H. Brintzinger, N. Thiele, U. Müller.

Full translation.

GERMAN, PER, Zeitschrift für Anorganische und Allgemeine
Chemie, Vol 251, No3, 1943, pp 285-294.

Scientific - Chemistry

AEC Tr 1243

Crystallization of Tungsten Blue Compounds;
Hydrogen Analogs of the Tungsten Bronzes
XX H_xWO_3 , by Oskar Glemser, Christa Naumann,

GERMAN, per, Zeitschrift fuer Anorgan und
Allgem Chem, Vol CCLII, 1943, p 160.

*AEC

Sci
Oct 61

TT-63-20433

Hove, Hugo vom and Müller, Friedrich.
ELECTROLYSIS OF MOLTEN Na_2SO_4 . II). [1963]
[20p] 1 ref

I. Hove, H. vom
II. Müller, F.

Order from SLA \$1.60

TT-63-20433

Trans. of [Zeitschrift für Anorganische und Allgemeine
Chemie] (West Germany) 1947, v. 253, p. 251-262.
(Abstract available)

DESCRIPTORS: *Electrochemistry, *Fused materials,
*Salts, *Sodium compounds, *Sulfates, *Electrolysis,
Electrolytic cells, Electrodes,

In experiments on the electrolysis of molten Na_2SO_4 ,
by gradually intensifying the screening of the electrodes
until the operation was conducted with a diaphragm, as
well as by improving the arrangement of the electrodes,
it was possible to increase the yield of alkali up to
more than 80%. The wear of the electrode materials,
(Chemistry--Physical, TT, v. 11, no. 3) (over)

Office of Technical Services

Concerning the Vanadium - Nitrogen System, Metal
Amides and Metal Nitrides, XVIII, by Harry Hahn,
11 pp.

GERMAN, per, Z Anorg und Allgem Chem, Vol CCLVIII,
1949, pp 58-68. 908057

AEC Tr-4657

Sci - Chem
Aug 61

165,396

TT-64-16521

I. Bischoff, F.

Bischoff, F[r]iedrich].
KINETICS OF THERMAL DISSOCIATION OF DOLO-
MITE AND LIMESTONE IN VARIOUS ATMOSPHERES
(Über die Kinetik der Thermischen Dissoziation von
Dolomit und Kalkstein in Verschiedenen Gasströmen).
[21p] (foreign tax included) 13refs
Order from SLA \$2.60

TT-64-16521

Trans. of Z[eitschrift für] Anorganische und
Allgemeine Chem[ie] (East Germany) 1950, v. 262,
p. 288-296.

(Chemistry--Physical, TT, v. 12, no. 4)

Office of Technical Services

63-18221

Brauer, George and Tiesler, Joachim.
THE REPLACEMENT OF MAGNESIUM IN MAGNE-
SIUM PLUMBIDE BY LITHIUM OR SODIUM. [1963]
[13p] 15refs
Order from SLA \$1.60 63-18221

Trans. of Zeitschrift für Anorganische und Allge-
meine Chemie (East Germany) 1950, v. 262,
p. 309-318.

DESCRIPTORS: *Magnesium compounds, *Plumbides,
Magnesium, *Sodium, *Lithium, Solubility, *Crystal
lattices, X-ray diffraction analysis.

Attempts to determine the solubility of $\text{Na}_{15}\text{Pb}_4$ in the
fluorite lattice of Mg_2Pb were unsuccessful. The ad-
dition of even 8.8% of $\text{Na}_{15}\text{Pb}_4$ produces a change in the
arrangement of the lines in the X-ray diagram. The re-
sults of X-ray examination of samples to which have been
added as much as 33.3% of $\text{Na}_{15}\text{Pb}_4$ are not in disagree-
(Chemistry--Inorganic, TT, v. 10, no. 11) (over)

Office of Technical Services

63-16110

Karsten, O.
DIAGRAMS OF THE SOLUBILITY EQUILIBRIUMS OF
THE QUINARY SYSTEM Na_2Cl_2 , K_2Cl_2 , MgCl_2 ,
 MgSO_4 AND H_2O , WITH SPECIAL CONSIDERATION
OF METASTABLE CONDITIONS. [1963] [18]p 10 refs.
Order from SLA \$1.60 63-16110

1. Karsten, O.

Trans. of *Zeitschrift für Anorganische und Allgemeine
Chemie* (East Germany) 1950, v. 263, p. 292-304.

DESCRIPTORS: *Chlorides, *Sodium compounds,
*Potassium compounds, *Magnesium compounds,
*Sulfates, Solubility, Thermodynamics, Phase studies,
Water, Chemical equilibrium.

In the further development of the diagrams of the
solubility equilibria of the system Na_2Cl_2 , K_2Cl_2 ,
 MgCl_2 , MgSO_4 , H_2O according to Van't Hoff and D'Ans
(Chemistry--Physical, TT, v. 10, no. 7) (over)

Office of Technical Services

Double Fluorides of Uranium Hexafluoride, by
H. Martin, A. Albers and H. P. Dust, 15 pp.

Full translation.

GERMAN, per, Z. Anorg Allg Chem, 1951, pp 123-138.

AEC Tr 1195

Scientific - Chemistry

Metal Amides and Metal Nitrides System Re-N, by
Harry Hahn.

GERMAN, per, Z. Anorg. Allg. Chem., Vol 264,
1951, pp 174-180.

*AEC ORNL

sci/ chemistry/
oct 69

Silicon, by H. von Wartenberg

GERMAN, Dez. Zeitschrift für Anorganische und
Allgemeine Chemie, Vol CCLIV, No 4-6, Jul 1951,
pp 186-200.

S.L.A. Tr Pool

Scientific - Chemistry
CTS/DEX

14,356

The Influence of Concentration on the Diffusibility
of Dissolved Substances (electrolytes and nonelec-
trolytes), by B. Gruttner, and G. Jander.

Full translation.

GERMAN, per, Zeitschrift für anorganische und all-
gemeine Chemie, Vol CCLXVI, No 4/5, 1951, pp 225-249.

AMC Tr. 1314

Sci - Chem

Absorption of Water by Melting Oxides, by
H. V. Wartenberg, 5 pp.

GERMAN, per, Z Anorg und Allgem Chem, Vol CCLXIV,
1951, pp 226-229.

ASC UCRL-Trans-676(L)

165,380

Sci - Chem
Aug 61

Wartenberg
165,380

Crystalline Tungsten Compounds, Hydrogen Analogs
of the Tungsten Bronzes HxWO_3 , by Oskar Glensner,
Christa Naumann.

GERMAN, ver. Z. Anorg. u. Allgem. Chem. No 265,
1951, pp 288-302.

ALC-Tr-5122

Sci - Chem

Apr 63

ALC TT-65-17132
226,770

The Structure of the Pentachlorides of Phosphorus
and Arsenic, by H. Giesbert.

GERMAN, par. 2 among allgem Chem, No 265, 1951.
pp 303-311.

Natl Res Council, Canada
TR No 742

Sci - Chem

Mar 60

111,542

The Vibration HX Spectra of Boron Trimethyl and of
Boron Trimethylene Ammoniate (Trimethyl-amono Borine),
by J. Goubeau, H. G. Becher.

Full translation.

GERMAN, per, Zeitschrift für Anorganische und
Allgemeine Chemie, Vol CCLXVIII, No 1-2, 1952, pp 1-12.

, AEC Tr 1549

Scientific - Chemistry

May 53 CTS

2094

The Fluorite Phase in the $U_3O_8 - Er_2O_3$ System,
by F. Hund, U. Peetz, 8 pp.

GERMAN, per, Z. Anorg und Allgem Chem, Vol
CCLXVII, 1952, pp 189-197.

AEC Tr 2282

Assoc Tech Svc Tr 75060

Scientific - Chemistry
Nov 55 CTS/DEX

45.15

28,449

The Properties of Titanium, Niobium and Tantalum
Compounds in Hydrochloric Acid. A Foundation of a New
Preparative Method of Separation, by Josef Wernet, 30 pp.

WERNER, per, Z Anorg u Allgem Chem, Vol CCLXVII, 1952,
pp 213- 237.

AEC Tr 1932

Butcher 329.3-19, 80

Scientific - Chemistry

19, 288

SEL CTS/DEX

Behavior of Compounds of Titanium, Columbium,
and Tantalum in Hydrochloric Acid as Basis of
a New Preparative Method, Part II (Concluding),
by J. Wernet.

GERMAN, per, Zeitschrift Anorg Allgem, Vol CCLXVII,
1952, pp 227-237.

Brutober fr No 3294

Scientific - Chemistry

Dec 54 CTS/DEK

\$7.40

Ortho-Salts of Oxy-Acids. Part 3 - The
Na - H₂ - NaOH - Na₂O System, by
A. Klemenc.

GERMAN, per, Zeitschrift fur Anorganische
und Allgemeine Chemie, Vol 269, 1952,
pp 153-164.

CEGB Trans 5550

Mar 72

Metal Carbonyls. LIII. Mechanism of the Carbon
Monoxide Reaction of Nickel (II) and Cobalt
(II) Salts in the Presence of Dithionite, by
W. Hieber, E. O. Fischer, 25 pp.

GERMAN, per, Z. Anorg u. Allgem. Chem, Vol CCIXIX,
pp 292-307, 1952.

SIA 3288

Sci - Chem
Aug 58

70,498

Stumpf, Karl-Ernst.
INVESTIGATIONS OF AUTOCATALYTIC AND
PHOTOCHEMICAL DECOMPOSITION OF IRON
PENTACARBONYL VAPOR IN THE PRESENCE OF
OXYGEN, AND ON THE RESULTING IRON OXIDES
(Untersuchungen über die Autokatalytische und
Photochemische Zersetzung von Eisenpentacarbonyl-
dampf in Gegenwart von Sauerstoff und die Dabei
Entstehenden Eisenoxyde). [1963] 42p (figs omitted)
28refs

Order from SLA \$4.60

TT-63-20739

Trans. of Zeitschrift für Anorganische und
Allgemeine Chemie (East Germany) 1952, v. 270,
p. 114-144. (Abstract available)

DESCRIPTORS: *Catalysis, *Photochemistry, *Iron
compounds, *Carbonyl radicals, *Oxides, Vapors,
Oxygen, Colloids, Phase studies, Nickel compounds.
(Chemistry--Physical, TT, v. 11, no. 4) (over)

TT-63-20739

1. Stumpf, K. - E.

Office of Technical Services

Alkalithio-and Seleno Compounds of the
Transition Elements. Part III. Structure
of Alkalithiocuprates, by W. Ruedorff,
H. G. Schwarz.

GERMAN, per, Zeit fur Anorg und Allgem
Chemie, Vol 269, No 3, 1952, pp 141-152.
NTC 69-12551-07B

Sci-Chem

The Nitrides of Niobium, by Georg Brauer, Jochen Jander,
19 pp.

GERMAN, per, Z der Anorganischen und Allgemeinen
Chemie, Vol CCLXX, 1952, pp 160-178. 9696366
FSTC 381-T64-114

Sci - Phys
Apr 65

276,385

Cryoscopic Measurements With Ice- KNO_3 and Ice- NaNO_3
Eutectics, by K. F. Jahr, ~~XXXX~~ et al, 28 pp.

GERMAN, per, ^{alt} Z^{alt} Anorg. / Allg. Chem., Vol CCLXX, 1952,
pp 240-256.

S.L.A. 1015

Scientific - Chemistry

33,509

Cryoscopic Ionic-Weight Determination With the ~~x~~
Aid of the Eutectic Ice-Potassium Nitrate in
Solutions of Basic Aluminium Nitrates, by F. Jahr,
A. Brechlin.

GERMAN, per, Z ~~KXXX~~ fuer Anorg und Allgem ~~E~~ Chem,
Vol CCLXX, 1952, pp 257-272.

✓ UKALA
*AEC D/LIB/Tr/05

Sci - Chem
May 63
M

Concerning Additional F Fluorite Phases in the
Mixed Oxides of Rare Earths With Uranium Investi-
gation of the Systems: La_2O_3 , Nd_2O_3 , Sm_2O_3 ,
 Yb_2O_3 , Sc_2O_3 With U_3O_8 , by F. Hund, U. Peetz, 10 pp.

GERMAIN, per, Z. Anorg u. Allgem Chem, Vol CCLXXI,
1952, pp 6-16.

AEC Tr 2239
Assoc Tech Sv Tr 77060

Scientific - Chemistry
CTS 73/Oct 1955

27852

Mechanism of Aging of Hydroxides, by
Swarup Narian Tewari, Arun K. Dey,
Satyeshwar Ghosh, 3 pp.

GERMAN, per, Zeit Anorg. Und Allgem. Chem,
Vol CCLXXI, 1953, pp 150-152.

26,109

AEC Tr 2188

Scientific - Chemistry Aug 55 CTS/DEX

Some Tertiary Chalcogenides with a Chalcopyrite
Structure (2), by H. Hahn.
GERMAN, per, Zeit fur Anorgan und Allge Chemie,
Vol 271, 1953, pp 153-170.
NLL Ref:8036.625 (trans 219)

Sci-Chem
Feb 70

401,483

Cerium - Uranium Blue and Mixed Crystals in the
System CeO_2 - UO_2 - U_3O_8 , by Walter Rudorff,
Gerhard Valet, 14 pp.

GERMAN, per, Z. Anorg u. Allgem. Chem, Vol CCLXXI,
1953, pp 257-272.

AEC Tr 2238

Assoc Tech Sv Tr 73G6G

Scientific - Chemistry
CTS 73/Oct 1955

27,848

On the Thermal Decomposition of Dolomite, by
J. A. Hedvall.

Full translation.

GERMAN, per, ^{or} ~~Zeitsch anorg und allgem Chem~~, Vol CCLXXIII
1953, pp 22-27.

Nova Scotia No 239

Scientific - Chemistry

Sep 53 G20

5657

Deceleration and Acceleration of the
Decomposition of Sodium Amalgams During
the Technical Electrolysis of Alkali
Chlorides, by G. Morgenstern.

GERMAN, per, Zeit fur Anorganische und
Allgemeine Chemie, Vol CCLXXII, 1953,
p 111-121.

SLA TT 64-20076

Apr 67

323,061

Wiberg, E., Graf, H., and Uson, R.
ABOUT MONOMERIC ALUMINUM HYDRIDE AlH_3 .
[1963] 19p

Order from K-H \$19.00

K-H 10464

Trans. of Zeitschrift für Anorganische und Allgemeine
Chemie (East Germany) 1953, v. 272, p. 221-232.

DESCRIPTORS: *Aluminum compounds, *Hydrides

(Chemistry--Inorganic, TT, v. 11, no. 1)

TT-63-22827

- I. Wiberg, E.
- II. Graf, H.
- III. Uson, R.
- IV. K-H 10464
- V. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

The Saturation Pressure Above Liquid Titanium
Tetrachloride, by H. Schafer, F. Zeppernick, 11 pp.

GERMAN, per, Z. Anorg. u. Allgem. Chem, Vol CCLXXII,
1953, pp 274-278.

S.L.A. Tr No 57-86

Sci - Chemistry
Apr 57

46,917

$(\text{NH}_4)_2\text{TiCl}_6$ and Its Solid Solutions With $(\text{NH}_4)_2\text{CrOCl}_5$, by J. Wernet.

GERMAN, per, Zeitschrift Anorg Allgem Chemie,
Vol CCLXXII, 1953, pp 279-287.

Brutcher Tr
No 3259

Scientific - NIE Chemistry

Jan 55 CTS/DEX

20,900

V
The Reduction - Oxidation Potentials of Inorganic Systems, 1. Formal Potentials in Aqueous Ferric - Ferrous Solutions, by R. Bock, M. Herrmann, 15 pp.

GERMAN, per, Zeit fur anorganische und allgemeine Chemie, Vol CCLXXIII, No's 1, 2, Jul 1953, pp 1-20.

2-186

29,319

CIV./FDD/~~2222~~

Scientific - Chemistry

1 ec 55 CTS/DEX

Hohn, Hans, Fitzer, Erich, and Nedwed, Hubert.
REACTIONS OF COLD-LIQUID AMALGAMS WITH
GASES. I. REACTIONS OF ALKALI AND ALKALINE
EARTH AMALGAMS WITH CARBON DIOXIDE. [1963]
[19p] 42-04

Order from SLA \$3.60

TT-64-10128

Trans. of Zeitschrift für Anorganische und Allge-
meine Chemie (East Germany) 1953, v. 274,
p. 297-315. (Abstract available)
Another trans. is available from SLA as AL-910, 30p

DESCRIPTORS: *Liquid metals, *Alkali metals,
*Sodium, *Alkaline earth metals, *Potassium, *Carbon
dioxide, Chemical reactions, Sodium compounds,
*Oxalates, Synthesis (Chemistry).

The known reaction behavior of liquid base metal sys-
tems toward CO₂, in which the latter molecule is con-
(Chemistry--Inorganic, TT, v. 11, no. 10) (over)

TT-64-10128

I. Hohn, H.
II. Fitzer, E.
III. Nedwed, H.
IV. Title: Reactions...
V. SLA-AL-910

TT-64-20379

Office of Technical Services

Hydrogenation Activity and Surface Area of
Pulverulent Nickel, Cobalt, Iron, and Copper
Catalysts and Mixed Catalysts, by C. Rindcker,
S. Unger.

GERMAN, per, Zeit Anorg Allgem Chemie, Vol CCLXXIV,
1953, pp 48-71.

Henry Bratcher

Tr No 3824

\$19.25 45,131

Sci - Chemistry; Min/Metals
Mar 1957 CTB/dex

Measurements of the Abnormal Lattice Disturbances
and of the Electrical Resistances in the System
 $\text{ThO}_2 - \text{La}_2\text{O}_3$, by F. Hund, 9 pp.

GERMAN, per, Z. Anorg u. Allgem Chem, Vol CCLXXIV,
1953, pp 105-113.

AEC Tr 2246

Assoc Tech Sv Tr 81G6G

Scientific - Chemistry
CTS 73/Oct 1955

27,863

Tin Monoxide and Its Behaviour at High Temperatures, by
H. Spandau, T. Ullrich.

GERMAN, per, Zeitschrift fuer Anorganische und
Allgemeine Chemie, Vol 274, 1953, pp 271-280.

CSIRO/No 5839

Sci
Feb 63

Agency: Army/Redstone
NIFR No. 971-60100-00-7016

R-13303-D
7 JUNE 1971

Title: The Reaction of Potassium Nitrodisulfonate
with Hydrazine and Acetylhydrazide.

Author: H. Gehlen, H. Eichlepp and J. Cernak

Source: Zeitschrift für anorganische und allgemeine
Chemie, 274, 293 - 296 (1953)

Language: German

Special Instructions: Please translate.
Edited draft only.

On Germanium Monochloride and Digermanium
Hexachloride, by R. Schwarz, E. E. Baronetzky,

GERMAN, per, Z. Anorg. und Allgem. Chem., Vol. CCLXXV,
No 1-3, 1954, pp 1-20.

ASLIB-GB4

Dec 61

176, 812

4
The Reactions of Cold Liquid Amalgams
With Gases, by Hans Nohn, Erich Fitzer, Helga,
Robert Medwed, 18p.

GERMAN, per, Zeitschrift für Anorganische
und Allgemeine Chemie, Vol 275, No 1/3,

SLA TT-64-20312

TC-247

333, 782

Sci
Jul 67

Reduction of Oxygen and Sulfur Dioxide by
Amalgams. II. Some Comments on the Reaction
of Amalgams Liquid at Room Temperature
with Gases, by Hans Hohn, Erich Fitzer, et al.
GERMAN, per, Zeit fur Anorg und Allgemeine
Chemie, Vol CCLXXV, No 1/3, 1954, pp 32-48.
SLA TT 64-20312

May 67 325,023

On the Constitution of the Coloring Complex in
the Titanium Test With Hydrogen Peroxide, by
Ekkehard Gastinger, 8 pp.

GERMAN, per, Z Anorg u Allgem Chem, Vol CCLXXV,
pp 331-337, 1954.

S.L.A. Tr 985/56

Sci - Chemistry
Sep 56 CIB

39,094

Contribution to the Science of Silicic Acids,
Part X(1) Alkoxysilanes and Oligosilicic
Acids, by Robert Schwarz, Karl Georg Kamuff.

22 pp.

GERMAN, per, Zeit fur Anorg und Allg Chemie,
Vol 275, 1954, pp 176-192.

Dept of Navy NIC Tran 2926

Sci-Chem
Dec 69

397,387

Contributions to the Science of Silicic Acids,
Part XI (1): Silicic Acids Produced from
Silicon Disulphide, by Robert Schwarz. 18 pp.
GERMAN, per, Zeit fur Anorg und Allg Chemie,
Vol 276, 1954, pp 33-46.
Dept of Navy NIC Tran 2927

Sci-Chem
Dec 69

397,388

Silicium Chalcogenides, Part VI (1): A Contribution on the Fiber-type Modification of Silicon Dioxide, by Alarich Weiss, Armin Weiss.

27 pp.

GERMAN, per, Zeit fur Anorg und Allg Chemie,
Vol 276, 1954, pp 95-112.

Dept of Navy NIC Tran 2928

Sci-Chem
Dec 69

397,389

Experiments With Heterodispersed "Seeds", by
S. Maricic, I. Markovic, 11 pp.

GERMAN, per, Z. Anorg. u. allgem. Chem, Vol
CCCLXVI, 1954, pp 193-203.

ABC Tr 2082

Scientific - Chemistry

Mar 55 CTS/dax

22,292

The Relationship Between Concentration and
Activity in Fused Salt Mixtures, by H. Flood,
T. Forland, K. Grojtoheim

GERMAN, per, Zeit Anorg und Allgem Chem, Vol
CCLXXVI, 1954, pp 289-315.

AEC Tr 2440

Scientific - Chemistry
Apr 56 GTS/dax

33,964

Sauerwald, F. and Dombola, H. E.
THE GENERAL FORMS OF THE TERNARY DIAGRAM
WITH TWO EUTECTIC BINARY SYSTEMS AND ONE
BINARY MIXED-CRYSTAL SYSTEM WITH MISCI-
BILITY GAP AND CRITICAL POINT, AS WELL AS
THE SYSTEM KCl-NaCl-NaF. [1963] 20p (figs
omitted) 4refs
Order from SLA \$1.66

TT-64-14377

Trans. of Zeitschrift für Anorganische und
Allgemeine Chemie (East Germany) 1954, v. 277,
p. 60-72

Other translations are available from SLA as
TT-57-02391, 30p and II-270, 20p.

(Chemistry--Physical, TT, v. 11, no. 12)

TT-64-14377

I. Sauerwald, F.
II. Dombola, H. E.

SLA NO 270/1956

Office of Technical Services

Contribution to the Chemistry of the Elements
Niobium and Tantalum XIII. Saturation Pressure
Over Solid Niobium IV Chloride, by H. Schaffer,
L. Bayer, 6 pp.

GERMAN, per, Z. Anorg. u. Allgem. Chem. Vol CXLXVII,
1954, pp 140-145.

S.A. 63-14132
S.L.A. Tr No 57-49

Sci - Chemistry, a inorganic
Apr 57

46,864

The Alkali-Graphite Compounds, by W. Rudorff
and E. Schulze,
GERMAN, per. Z. anorg. Allg. Chemis., Vol 277,
1954, pp 156-171.

BISI 7995

Mar 71

Carbides of Niobium, by G. Brauer, H. Renner, and
J. Wernat, 7 pp.

WERNAT, per, Z. Anorg u Allgem Chem, Vol CCLXXVII,
1954, no 249-257.

Sci

Jul 58

~~SECRET~~ 538100

Disco Tech Serv

68,431

The Reaction of Metallic Titanium, Zirconium,
Hafnium, and Thorium With Acids, in Particular
Hydrofluoric Acid, by M. E. Straumanis, J. I.
Ballass, 6 pp.

GERMAN, per, Z Anorg u Allgem. Chem., Vol CCLXXVIII,
1955, pp 33-41.

44,460

AEC Tr 2820

Sci - Chemistry

The Preparation of Anhydrous Titanium (II) -
Chloride, by V. Gutman, H. Nowotny, G. Ofner,
5 pp.

GERMAN, no per, ~~Zeit fuer Anorg und Allgem Chemie~~,
Vol CCLXXVIII, No 1/2, 1955, pp 78-81.

A.E.R.E. Harwell Lib Tr 698

Sci - Chemistry
March 57 CTS/dex

44,352

The Yttrium Oxide - Uranium Oxide System, by F.
Hund, U. Peetz, G. Kottenhahn.

GERMAN, per, Z. Anorg und Allgem Chem, Vol ~~REKXXXXX~~
CCLXXVIII, 1955, pp 184-191.

AEC Tr 2281

Assoc Tech Svc Tr 79G6Q

Scientific - Chemistry
Nov 55 CTS/DEX

28,448

On Oxides of Cerium, by G. Grauer,
U. Holtschmidt.
GERMAN, per, Zeit. Anorg. Allgem.
Chem., Vol 279, No 5/4, pp 129, 187, 1953
NASA TT F-9476

Sci-Chem
Nov 65

291,682

Ternary Chalcogenides of Aluminium, Gallium and Indium with Zinc, Cadmium and Mercury, by

H. Hahn.

GERMAN, per, Zeit fur Anorgan und Allge Chemie,

Vol 279, No 5-6, 1955, pp 241-270.

NLL Ref:8036.625 (trans 220)

Sci-Chem

Feb 70

401,484

Investigations On Klemenc's "Red Coal". 1 and
2, by L. Schmidt and others.

GERMAN, per, Zeitschrift Fur Anorganische Und Allgem-
eine Chemie, Vol CCXXCII, 1955, pp 242-252, 245-261.

CSIRO Tr 4244

Oct. 62

The Color of the Ruby and the $(Al, Cr)_2O_3$ Mixed
Crystals, by E. Thilo, J. Jander, H. Stemann,
19 pp.

GERMAN, per, Z Anorg u Allgem Chem, Vol CCLXXIX,
No 1-2, 1955, pp 2-17.

SIA 57-2548

Jul 58

69, 999

Raman Spectra of the Systems ZnCl_2 - KCl and CdCl_2 -
 KCl in the Melt, by W. Buss, 16 pp. UNCLASSIFIED

GERMAN, per, Z Anorg U Allgem Chem, Vol CCLXXIX, 1955,
pp 104-114.

AEC Tr 3120

59,288

Chem;
Sci - Phys
Feb 58

On Solutions of Chloramine in Liquid Ammonia, by
Jochem Jander, 15 pp.

GERMAN, per, Zeit für Anorganische und Allgemeine
Chemie, Vol CCCLXX, 1955, pp 264-275.

CIA/FDD XX-564

NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chem

Jan 59

USIS INTERNAL USE ONLY

78,548

Contribution to Understanding of Chemistry of
Chlorine-Nitrogen and Chlorine-Oxygen Compounds,
by Jochen Jander, 11 pp.

GERMAN, per, Zeit fur Anorganische und Allgem
Chemie, Vol CCLXXX, 1955, pp 276-283.

CIA/TDD XX-565

NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chem

Jan 59

USIS INTERNAL USE ONLY

78,547

Investigations of Surface Areas by the Method
of Brunner, Emmett and Teller I. The B-Point
Pressures as Characteristic Constants, by P.
Royzen, A. Orth, K. Ruths.

Zeit
GERMAN, per, A Anorg-Allgem Chemie, Vol CCLXXXI,
No 1/2, 1955, pp 1-17.

CSIR
T.I.L. T-4683

Sci - Chemistry

36,922

Aug 1956

On the Hydrolysis of Phosphorus (III)-Chloride,
-Bromide and -Iodide (1), by Erich Thilo, Dieter
Reins, 19 pp.

GERMAN, per, Zeit f Anorg und Allg Chemie,
Vol CCLXXXI, No 5/6, 1955.

NOT RELEASABLE TO FOREIGN NATIONALS
CIA/FID XX-198

Sci - Chemistry
Sep 56 CTS/dex

38,552

IAE INTERNAL USE ONLY

Thermal and X-Ray Analytical Contribution
to the Reduction of Tungsten Trioxide,
by A. J. Hegedus, T. Millner.
GERMAN, per, Zeut fur Anorg und Allg Chem,
Vol 281, 1955, pp 64-82.
NTC 69-11392-07B

Sci-Chem
July69 q

387,014

The Chemistry of Condensed Phosphates and
Arsenates. Part 13. The Course of the Dehydra-
tion of the Dihydrogenmonophosphates of Li^+ ,
 Na^+ , K^+ , and NH_4^+ , by E. Thilo, H. Grunse.

GOVERNMENT USE ONLY

GERMAN, per, Zeitschrift für Anorganische und
Allgemeine Chemie, Vol 281, 1955, pp 262-283.
NASA TT P-11,745

Sci
Dec 68

371,154

Theory of Light Absorption of Complex Compounds,
by A. Kiss

GERMAN, per, Z. Anorg. und Allgem. Chem. Vol CCLXXXII,
1955, pp 141-148.

AEC Tr 2650

Sci - Chemistry
Nav 56 CTS

40,591

On the Investigation of Ferrates(VI), by R.
Scholder, H. W. Bunsen, F. Kindervater, W.
Zeiss.

GERMAN, per, Zeitschrift fuer Anorganische
und Allgemeine Chemie, Vol 282, 1955,

pp 268-79.

SLA TT-66-11008

Sci - Materials
Jul 67

327, 333

578

On a Hydrogen Compound of Bivalent Iron, by
Brigitte Sarzy. 10 pp.
GERMAN, per, Zeitschrift für Anorganische und
Allgemeine Chemie, Vol 228, 1956, pp 41-47.
NAV/NIC/Tran-2822-69

sci.chemistry
may 69

381,224

Ehrlich, Paul, Alt, Bernhard, and Gentsch, Leonore.
THE CHLOROHYDRIDES OF THE ALKALINE EARTH
METALS. 29p (1 fig omitted) 17refs
Order from SLA \$2.60

TT-64-16443

Trans. of Zeitschrift für Anorganische und
Allgemeine Chemie (East Germany) 1956, v. 283,
p. 58-73.
Another trans. is available from K-H \$36.25 as
K-H-4050c, 29p.

TT-64-16443

I. Ehrlich, P.
II. Alt, B.
III. Gentsch, L.

(Chemistry; Inorganic, TT, v. 12, no. 3)

Office of Technical Services

The High Nickel Hydroxides: the Oxidation of
Nickel II Hydroxide, by W. Feitknecht, W. Christen,
and H. Studer, 8 pp.

GERMAN, per, Z. Anorg u Allgem Chem, Vol CCLXXXIII,
1956, pp 88-95.

SLA Tr 57-750

Sci

Jul 58

68,009

The Behavior of Graphite Towards Iodine
Monochloride and Chromyl Chloride, by W.
Rudorff.

GERMAN, per, Z. Anorg u Allgem Chem, Vol CCLXXXIII,
No 1-6, pp 299-303, 1956.

CSIRO-3137

Sci - Chem
Aug 58

70,506

63-16851

1. Title: Methylene chlorides
2. Title: Entrainment
- I. Schaefer, H.
- II. Breil, G.

Schaefer, Harald and Breil, Günther.

THE TENDENCY FOR THE FORMATION OF GASE-
OUS TRICHLORIDES OF THE ELEMENTS CHRO-
MIUM, MANGANESE, IRON, COBALT, NICKEL,
INVESTIGATED WITH THE REACTION MeCl_2 gas +
 $1/2 \text{Cl}_2$ + MeCl_3 gas. [1963] 11p. 20 refs. - gas +
Order from SLA \$1.60

63-16851

Trans. of Zeitschrift für Anorganische und Allgemeine
Chemie (East Germany) 1956, v. 283, p. 304-313.

DESCRIPTORS: *Chromium compounds, *Manganese
compounds, *Iron compounds, *Cobalt compounds,
*Nickel compounds, Gases, *Chlorides, Methanes,
Phase studies, Chemical equilibrium, Decomposition,
Enthalpy, Ionization potentials.

Entrainment measurements in the chlorine stream with
the dichlorides MnCl_2 , CoCl_2 and NiCl_2 as the solid
phase gave a very considerable formation of gaseous
trichloride with cobalt, but with manganese and with
nickel a formation existing at the limit of the detecta-
(Chemistry--Physical, TT, v. 10, no. 7) (over)

Office of Technical Services

Vibration Spectra of Molten, Glassy, and
Crystalline, Highly Polymerized Phosphates, by
W. Dues, H. W. Gehrke, 36 pp.

L

SEHRMAN, DOR, Z Anorg und Allgem Chem. Vol CCXXXIII,
1956, pp 307-323.

AEC Tr 3595

Sci - Chem

May 59

86,975

Pure Silicon, by E. V. Wartenberg, 7 pp.

GERMAN, per, Z. Anorg u. Allgem. Chem., Vol CCLXXXIII,
1956, pp 372-376.

AEC TR 2521

Sci - Chemistry

Jul 1956

36,778

Mica Form of Silicon Oxyhydride [HS10 1.5]¹ by
E. Wiberg, W. Zimmer, 2 pp.

GERMAN, Ger, Z Anorg u Allgem Chem, Vol CCLXXXIII,
1956, pp 403-404.

PP 401-413-SLA 59-10823

NOT RELEASABLE TO FOREIGN NATIONALS

CSIRO 3138
CIA/FDD/XX-329

Sci - Chem

Sep 57

IAC INTERNAL USE ONLY

53,338

Contribution to Thermoanalytical Study of the
Decomposition and Reduction of Sulfates (1),
by A. J. Hegedeus, K. Fukker, 11 pp.
GERMAN, per, Z. Anorg Allgem Chem, Vol 284, 1956,
pp 20-30.
AEC/ORNL-Tr-1616-69

Sci/Chem
Jan 70

411,163

Kinetics and Mechanism of the Raschig
Hydroxylamine Synthesis, by F. Seel,
E. Degener.

GERMAN, per, Z. fuer Anorganische und Allgemeine
Chemie, Vol CCLXXXIV, 1956, pp 101-130.

CSIRO

Sci - Chem
May 62

196, 431

Color and Constitution of Complexes. VIII. The Light
Absorption of Complex Ions of Trivalent Titanium, by
H. Hartmann, et al.

GERMAN, per, Z. Anorg und Allgem Chem, Vol ^{CC}~~XLXXXIV~~,
1956, pp 153-161.

ATS 553-GJ

Sci - Chem

Aug 60

123,916

Sulfur Dinitride, S_2N_2 , and Poly-Sulfur Nitride),
 $N)_x$, by M. Goehring, D. Voigt,

EMAN, per, Z. Anorg und Allgem Chem, Vol. CCLXXXV,
76, pp 181-190.

ATB 568-GJ

di - Chem

pg 60

125,857

Note on the Blue Solutions of Sodium in Methylamine,
by Gerhard Hohlstein, Ulrich Wannagat, 25 pp.

GERMAN, per, Z Anorg und Allgem Chem, Vol CCLXXXIV,
1956, pp 191-196.

ABC Tr-4248

Sci - Chem
Jun 61

155961

Reactions and Equilibria in Alkali Hydroxide
Fusions. II. Extinction Measurements as an
Aid in the Investigation of Manganate Equilibrium,
by Hermann Lux, Titus Niedermair.

GERMAN, per, Z. Anorg u. Allgem Chem, Vol CCLXXXIV,
1956, pp 246-261.

AEC Tr 2806

Sci - Chemistry
Feb 1957 CTS/dex

42,734

Concerning the Anion Exchange Capacity of
Clay Minerals, by A. Weiss, A. Mehler,
G. Koch, U. Hofmann, 36 pp.

GERMAN, per. Zeit fuer Anorgan und Allgemeine
Chemie, Vol 284, No 4-6, 1956.

Dept of Commerce
National Bureau of Standards

Sci - Chem

184, 432

Feb 62

On the Exothermic Reaction of Metakaolin
Between 950 and 1000°C, by J. Wiegmann, C.
Horte.

GERMAN, per, Z. fuer Anorganische und
Allgemeine Chemie, Vol CCLXXVI, No 5/6,
1956, pp 268-287.

CSIRO

Sci - Chem

201.118

Jun 62

On a Hydrogen Compound of Trivalent Iron,
by Brigitte Sarry.
GERMAN, per, Zeit fur Anorg und Allg Chem.
Vol 288, 1956, pp 48-61.
Dept of Navy NIC Trans No 2815

Sci-Mat
May 69

382,745

The Relationship Between the Conditions of Formation
of Magnetites and γ -Ferric Oxides and Their
Magnetic Characteristics, by A. Simon, G. Ackerman.

GERMAN, per, Z fuer Anorg und Allgemeine Chem, 1956,
pp 309-321.

Navy Tr 1527/NRL 629

Sci - Chem

Oct 57

53,570
200-700-100-100

Vibration Spectra of Sodium Di-, Tri-, and
Tetraphosphate in the Molten, Glassy, and
Crystalline State, by W. Bues, H. W. Gehrke, 24 pp.

GERMAN, per, Z Anorg u Allgem Chem, Vol CCLXXXVIII,
1956, pp ~~291-306~~ 291-306.

NOT RELEASABLE TO FOREIGN NATIONALS

CIA/FDD XX-~~395~~

158,565

Sci - Chem

Feb 58

IAC INTERNAL USE ONLY

Vibration Spectra of Molten, Vitreous, and
Crystallized High-Polymeric Phosphates, by
W. Bues, H. W. Gehrke, 22 pp.

GERMAN, per, Z Anorg u Allgem Chem, Vol CCLXXXVIII,
1956, pp 307-323.

NOT RELEASABLE TO FOREIGN NATIONALS

CLA/FDD XX-396 58,566

Sci - Chem
Feb 58
IAC INTERNAL USE ONLY

Structure of the Hexafluorometallates (III), by Hans
Bode, Ernst Vonn,

GERMAN, part, Z fuer Anorgan und Allgem Chem, Vol CCXC,
1957, pp 1-16.

AEC Tr-4034

Sci - Chem

May 60

117,381

Appraisal of the System Silicon - Oxygen, by
O. Glensner, K. Beltz, 12 pp.

GERMAN, per, Z fuer Anorg und Allgem Chemie,
No 291, 1957, pp 57-66. 9211470

A.C.S.I.L. Tr 1240

Sci - Chem
Oct 63

Studies of Magnetic Sound Carriers.
IV. The Dependence of the Electroacoustic
Properties of Magnetic Tape Recordings
on Particle Size and Lattice Order of
the Soundcarrying γ -Iron(III)-Oxide,
by Richard Schrader, 26p.
GERMAN, per, Zeitschrift für Anorganische
und Allgemeine Chemie, Vol 293, 1977,
pp 169-91.
TC-419

333, 787

Sci
Jul 67

Note on Titanium Hydride Formed by Reaction of
Titanium With Acids, by S. Yamaguchi, R. Otsuka.

GERMAN, per, Z. Anorg Allg Chemie, Vol CCXCI, No 1-4,
Sep 1957, pp ~~131-133~~

Brutcher Tr 4143
\$2.00

Sci - Chem
Jul 58

66,272

Chromatographic Investigations on Organ-
ochromium Compounds, by Fr. Hein. K. W. Fischer.
GERMAN, per, Zeit fur Anorg und Allgemeine
Chemie, Vol CCLXXXVIII, No 5/6, 1957,
pp 279-287.
SLA TT 64-20219

Apr 67

322,245

The Heat of Formation of Ammonium-Hydrogen Fluoride
by H. Schutza, M. Eucken, W. Namsch, 7 pp.

GERMAN, per, Z fuer Anorg und Allgem Chemie,
Vol CCXCII, 1957, pp 293-297. 9097024

AEC Tr-4869

Sci - Chem
Mar 62

186,519

Concerning the Cation Exchange Capacity of Clay Minerals. I. Comparison of Investigation Methods, by Armin Weiss, 31 pp.

GERMAN, per, Zeitschrift für anorganische und allgemeine Chemie, Vol CCXCVII, No 3/4, 1958, pp 232-256.

U. S. Dept of Commerce
Nat Bur of Standards

150,113

Sci - Chem

May 61

Concerning the Cation Exchange Capacity of Clay Minerals. II. The Cation Exchange of Minerals of the Mica-, Vermiculite-, and montmorillonite Groups, by Armin Weiss, 48 pp.

BERMAN, per, Zeitschrift für Anorganische und allgemeine Chemie, ~~XXXX~~ Vol CCXCVII, No 5/6, 1958, pp 257-266.

U. S. Dept of Commerce
Nat Bur of Standards

150/114

Sci - Chem
May 61